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1 Reliability and performance of hierarchical RAID with multiple controllers

Sung Hoon Baek, Bong Wan Kim, Eui Joung Joung, Chong Won Park
August 2001 **Proceedings of the twentieth annual ACM symposium on Principles of distributed computing PODC '01**
Publisher: ACM Press

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> Redundant arrays of inexpensive disks (RAID) offer fault tolerance against disk failures. However a storage system having more disks suffers from less reliability and performance. A RAID architecture tolerating multiple disk failures shows severe performance degradation in comparison to the RAID Level 5 due to the complexity of implementation. We present a new RAID architecture that tolerates at least three disk failures and offers similar throughout to the RAID Level 5. We call it the hierar ...

> **Keywords**: Markov process, hierarchical RAID, high reliability, three-failure-tolerant array

2 Hierarchical disk cache management in RAID 5 controller

Jung-ho Huh, Tae-mu Chang
December 2003 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 2
Publisher: Consortium for Computing Sciences in Colleges
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> In RAID system, disk cache is one of the important elements in improving the system performance. Two-level cache displays superior performance in comparison to single cache and is effective in temporal and spatial locality. The proposed cache system consists in two levels. The first level cache is a set associative cache with small block size whereas the second level cache is a fully associative cache with large block size. In this paper, a RAID 5 disk cache model is presented that is located on ...

3 The HP AutoRAID hierarchical storage system

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan
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